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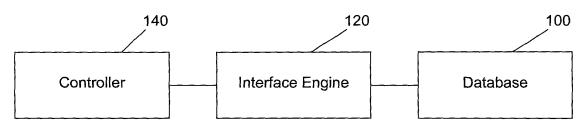
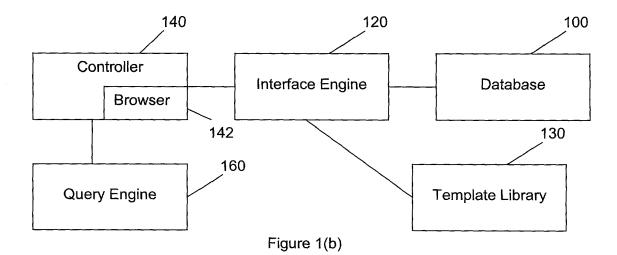


Figure 1(a)



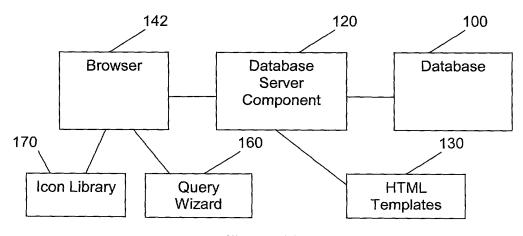


Figure 1(c)

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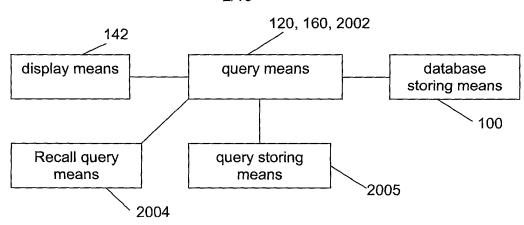
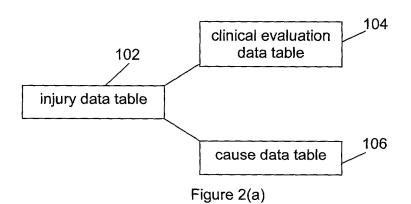
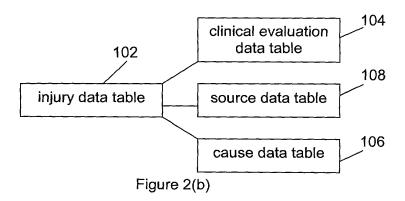


Figure 1(d)





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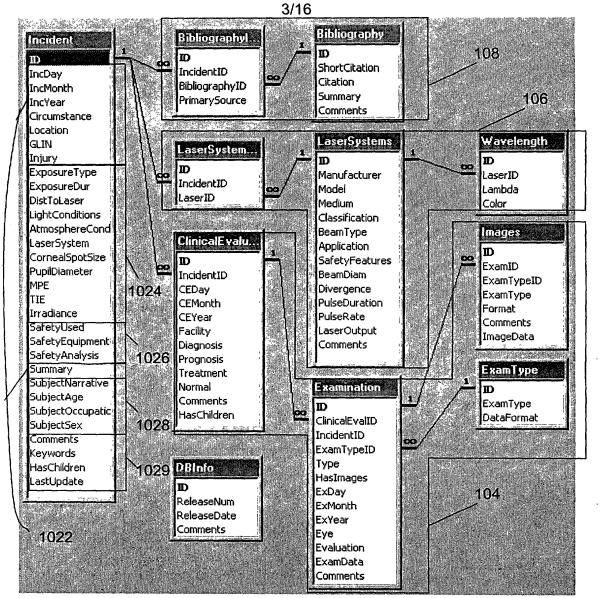


Figure 3

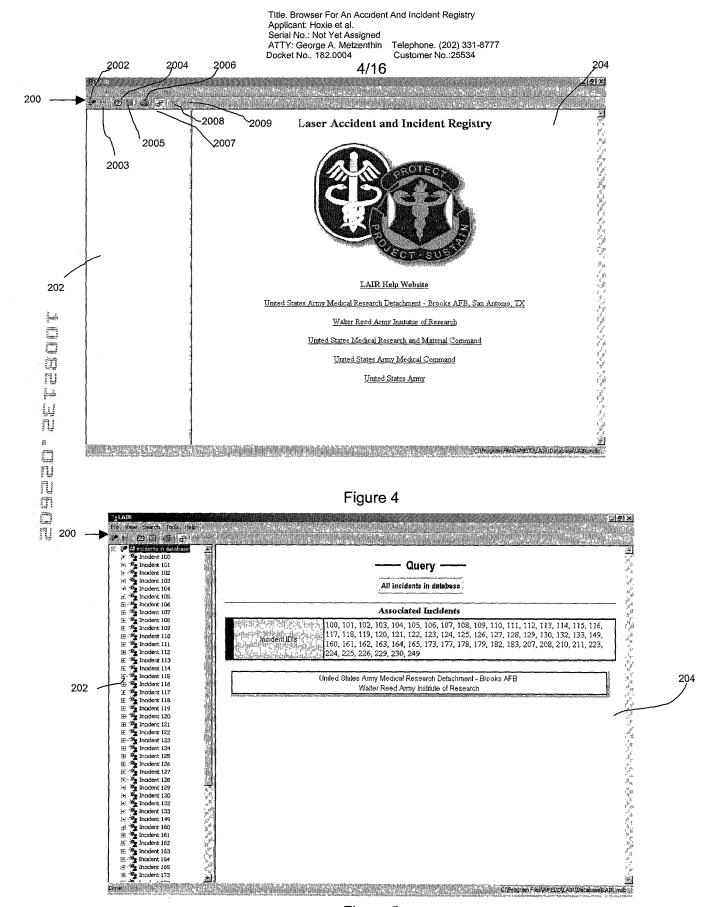


Figure 5

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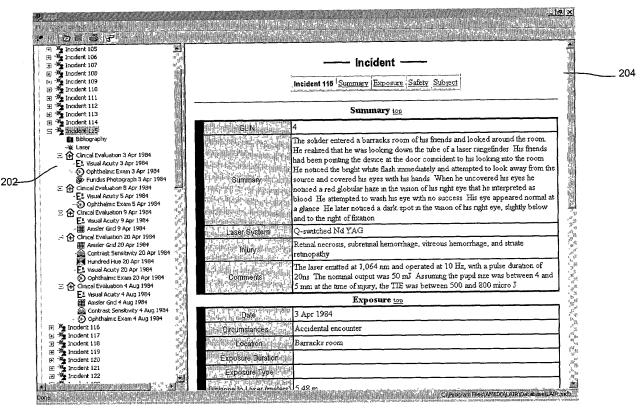


Figure 6(a)

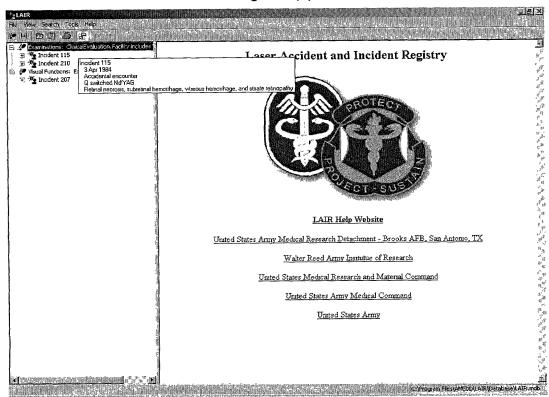


Figure 7

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Incident Incident 115 Summary Expressure Sufaty Subject Summary 100		
Summery	The solider entered a barracks room of his friends and looked around the room. He tealized that he was looking down the tube of a laser magelinder. His friends had been pointing the device at the door conteident to his looking into the room. He noticed the bright white flash intendedately and aftempted to look away from the source and covered his eyes with his hands. When he ance end his eyes he noticed a red globular haze in the vision of his right eye that he interpreted as blood. He attempted to wash his eye with no success. His eye appeared narmal at a glonce. He laser noticed a dark spot in the vision of his right eye, slightly below and to the right of fixation.	
Leser System	Q-sveitched Nd: YAG	
Injury	Retinal neoccies, subcetimal hemorrhage, vitreous hemorrhage, and striate retinopathy	
Comments	The laser emitted at 1,064 nm and operated at 10 Hz, with a pulse duration of 20ts. The nominal output was 50 ml. Assuming the pupil size was between 4 and 5 mm at the time of injury, the TIE was between 500 and 800 micro J.	
	Exposure <u>no</u>	
Date	3 Apr 1984	
Orcumstances	Accidental encounter	
Location	Harracks recon	
Exposure Duration		
Ехровите Туре		
Distance to Laser (meters)	5.48 m	
Corneal Spot Size (num)	4×10 ³ mm	
Pupil Diameter (mm)		
Atmospheric Conditions		
Ambient Lighting Conditions		
Irrediance		
Total Intra-ocular Energy (J/cm ²)		
Meximum Permissible Exposure Limit (Jicm ²)		
	Sufety toe	
Safety Equipment		
Safety Used	No	
Safety Analysis		
	Subject top	
Subject Report	Upon entering the moon, the soldier immediately noticed a bright white flash that pulsated 'like a strobe'. He renombers hearing a whirring noise coming from the exom just prior to his entering the ream.	
Sex	Male	
Age	22	
Occupation	Soldier	

Figure 6(b)

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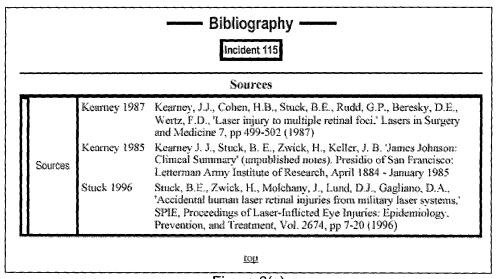


Figure 6(c)

____ Laser System ____

Lasers referenced in Incident 115

Laser Systems

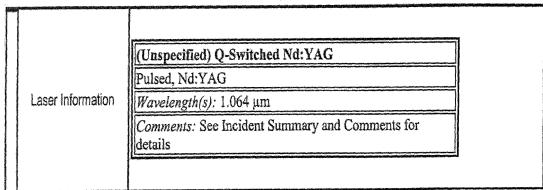


Figure 6(d)

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Incident 115 Summary Comments inclu Summary 10p		
Abnormal Results	Abnormal visual functions	
Diagnosis	Visual acuity OD 20/400, a small vitreous hemorrhage, plus three visible retinal lesions. Visual acuity OS 20/20	
Treatment	Corticosteroids in the form of dexamethoasone IV 10 mg initially and 4mg every 6 h for 48 h.	
Prognosis		
Facility	Emergency Room	
	Comments top	
Exam Oetails Available	Yes	
Comments	Patient was examined at emergency room shortly after injury.	

Figure 6(e)

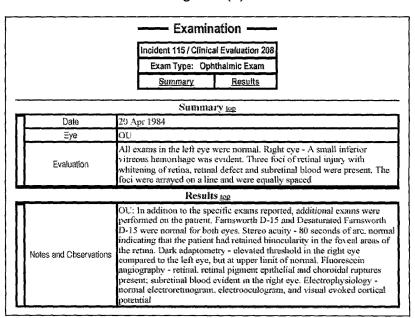


Figure 6(g)

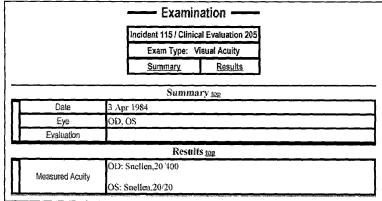


Figure 6(h)

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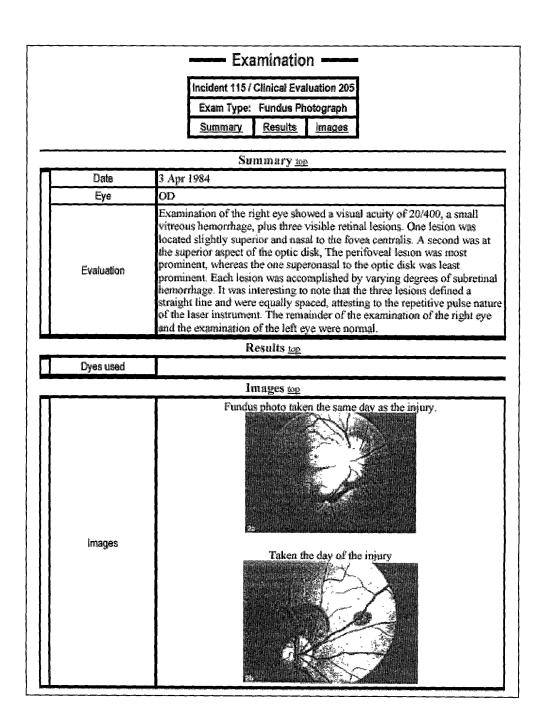


Figure 6(f)

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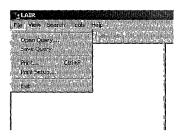


Figure 8(a)



Figure 8(b)

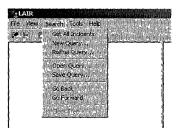


Figure 8(c)



Figure 8(d)

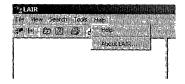


Figure 8(e)

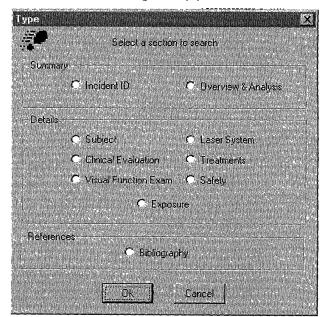


Figure 11(a)

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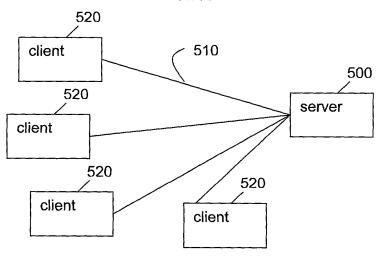


Figure 9

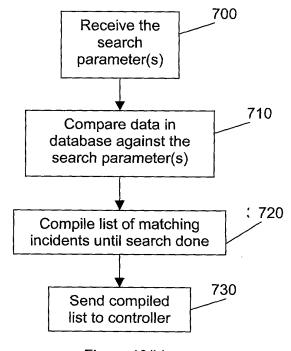
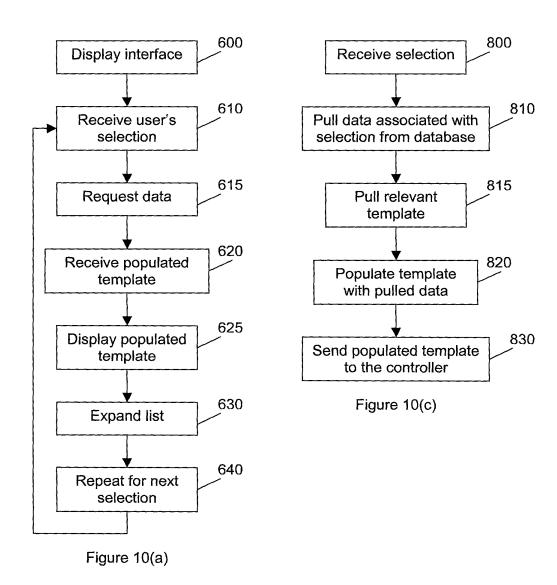


Figure 10(b)

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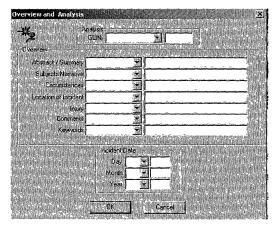


Figure 11(b)

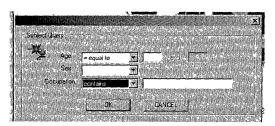


Figure 11(c)

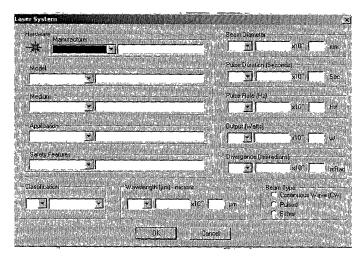


Figure 11(d)

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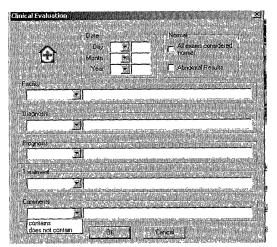


Figure 11(e)

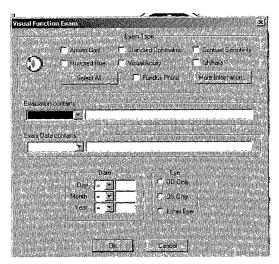


Figure 11(f)

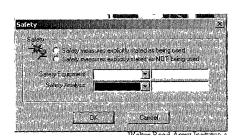


Figure 11(g)

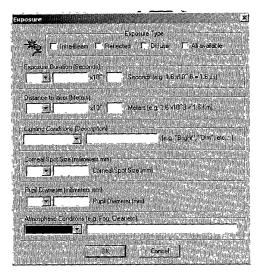


Figure 11(h)

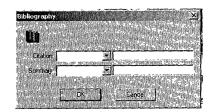


Figure 11(i)

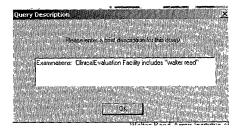


Figure 11(j)

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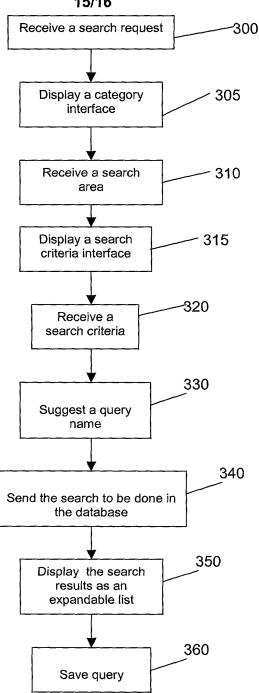


Figure 12

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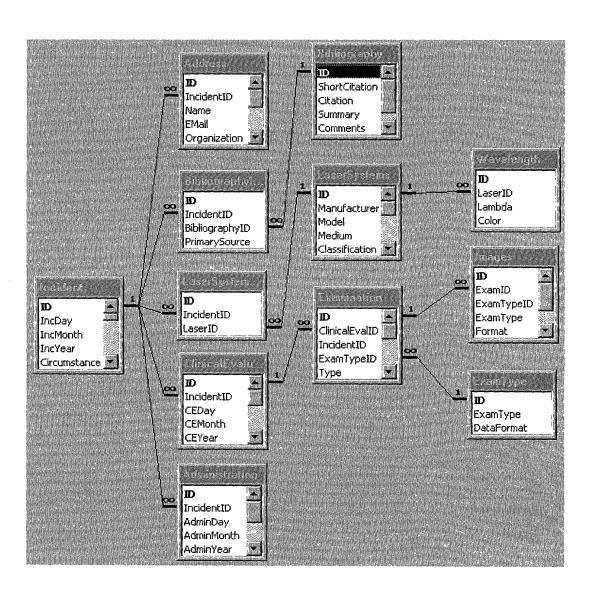


Figure 13